

Title (en)  
Process for producing an ethylene copolymer.

Title (de)  
Verfahren zur Herstellung eines Äthylen-Copolymers.

Title (fr)  
Procédé de fabrication d'un copolymère d'éthylène.

Publication  
**EP 0013837 A1 19800806 (EN)**

Application  
**EP 79303068 A 19791228**

Priority  
JP 16120378 A 19781228

Abstract (en)  
A process for producing an ethylene copolymer having a density of from 0.900 to 0.945 g/cm<sup>3</sup> by copolymerizing a predominant amount of ethylene with a minor amount of an alpha-olefin containing at least 3 carbon atoms which process comprises first polymerizing a said alpha-olefin in the presence of a catalyst composed of (A) a titanium catalyst component supported on a magnesium compound, (B) an organoaluminum compound, and (C) an organic acid ester until 0.01 to 50 g of said alpha-olefin, per gram of the titanium catalyst component (A), have been polymerized, and second copolymerizing the ethylene and a said alpha-olefin in the presence of the said catalyst at a temperature of from room temperature to 100° C and a pressure of from 1 to 100 kg/cm<sup>2</sup> until more than 100 times the weight of the polymerformed in the first step has been produced. By means of this process it is possible to avoid problems associated with prior art processes, such as the low output of high temperature melt-polymerization techniques for producing high molecular weight copolymers or the dissolution or swelling of copolymers in the polymerization solvent employed in slurry polymerization methods.

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IPC 8 full level  
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Citation (search report)

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